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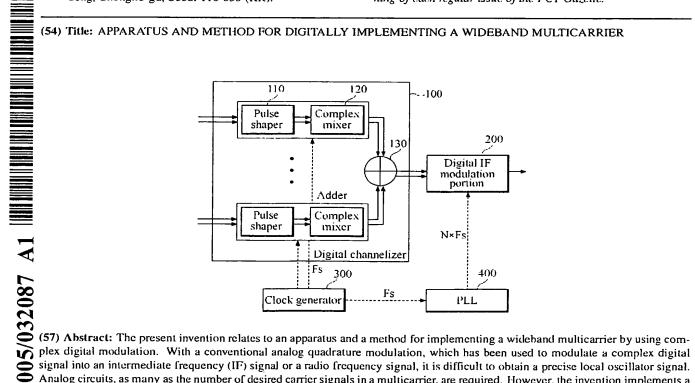
- (71) Applicant (for all designated States except US): UTSTAR-COM KOREA LIMITED [KR/KR]; San 136-1, Ami-ri, Bubal-eub Icheon-si, Kyongki-do 467-701 (KR).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): JEONG, Eui Rim [KR/KR]; Hyundai 6-cha Apt. 601-1102 Daewol-myeon Icheon-si, Gyeonggi-do 467-737 (KR).
- (74) Agent: YOON, Jee Hong; Hannuri Bldg. 219 Naejadong, Chongno-gu, Seoul 110-053 (KR).

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signal into an intermediate frequency (IF) signal or a radio frequency signal, it is difficult to obtain a precise local oscillator signal. Analog circuits, as many as the number of desired carrier signals in a multicarrier, are required. However, the invention implements a wideband multicarrier by newly employing a digital channelizer and a digital IF modulation portion. Since the former can efficiently generate a plurality of carrier signals having different center frequencies and the latter can up-convert the generated carrier signals into a desired multicarrier, the invention can obtain a more reliable wideband multicarrier and implement a wideband multicarrier in a cost-effective manner.

